CONTAX TVS DIGITAL

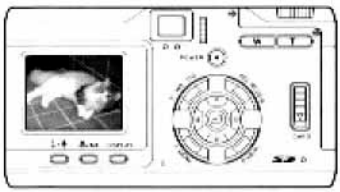
Instruction manual

GB

What this Camera Can Do *(camera/camera peripherals)*

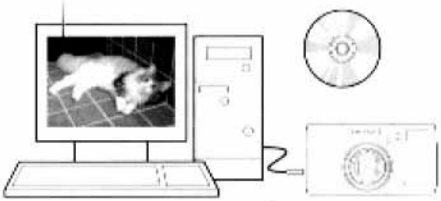
Shooting images

Viewing images on the LCD monitor



Connecting to a PC

- Attach images to E-mail
- Save images to hard disk or CDR
- Use images as screen savers

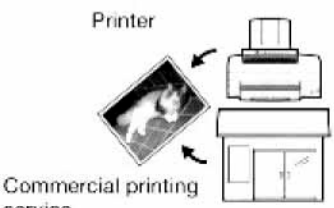


- Process images using retouch software

You can connect your camera to a PC with a USB cable. Some operating systems may require you to install a USB driver. If this is the case, connect the camera to the PC after installing the USB driver. Note that the driver may not be correctly installed if the installation process is not performed correctly. For details, refer to page 96.

Viewing images on a TV screen

Printing digital images



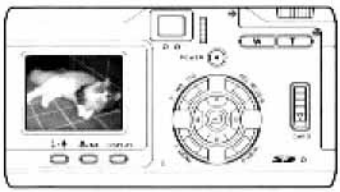
* Like conventional film, digital prints can be processed by a commercial printing service. For details on services provided, contact your dealer.

What this Camera Can Do *(camera/camera peripherals)*

English

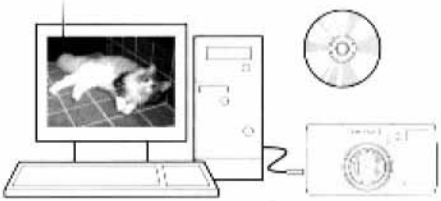
Shooting images

Viewing images on the LCD monitor



Connecting to a PC

- Attach images to E-mail
- Save images to hard disk or CDR
- Use images as screen savers

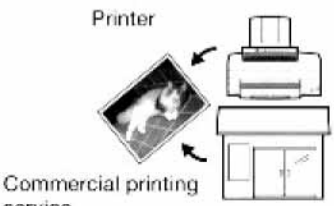


- Process images using retouch software

You can connect your camera to a PC with a USB cable. Some operating systems may require you to install a USB driver. If this is the case, connect the camera to the PC after installing the USB driver. Note that the driver may not be correctly installed if the installation process is not performed correctly. For details, refer to page 96.

Viewing images on a TV screen

Printing digital images



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Contents

Check the Contents 2
What this Camera Can Do 3
Handling Precautions 6
Names of Parts 10
LCD Monitor Indications 11
Viewfinder Display and Display Panel 12
LED Indicators 13

Preparations and Operating Checks

Preparations Before Shooting

1. Loading and Charging the Battery Pack 15
2. Installing and Removing the Memory Card 16
3. Setting the Time and Date 17
4. Imprinting the Date (Still Mode) 18
5. Adjusting the Diopter 18
6. Holding the Camera 18

Basic Operations

1. POWER Button 20
2. Shutter Release Button 20
3. Zoom Button 21
4. Mode Dial 21
5. "ϟ / 🎤" Button 21
6. "🌷 / MF" Button 22
7. REC REVIEW Button 22
8. ±WB ISO Button 22
9. "C MENU" Button 23
10. "D MENU" Button 24
11. AFL Button 25
12. DISPLAY Button 26
13. Optical Viewfinder 27

Photography

Simple Still Photography Procedure

1. "P" Program Auto Function 29
2. "Av" Aperture-Priority Auto 30
3. Confirming and Erasing Images 32
4. Flash Photography 34

Still Photography Techniques

1. Focus Lock Photography 39
2. Macro Photography 41
3. Manual Focus Photography 42
4. Exposure Compensation 43
5. White Balance Adjustment 44
6. ISO Setting 45
7. "C MENU" Photography 46
   - ① Self-Timer/Remote Control Photography 46
   - ② Spot Auto Focus Photography 48
   - ③ Metering Mode Selection 49
   - ④ Taking Pictures with the Exposure Auto Bracketing Control Mode (ABC mode) 50
   - ⑤ Continuous Shooting 51
   - ⑥ "LT" Longtime Exposure 52
   - ⑦ Flash Exposure Compensation 53
8. "D MENU" Photography 54
   - ① Changing Image COLOR 54
   - ② PIXELS and QUALITY 54
   - ③ Taking Pictures with the White Balance Shifted in Three Steps (WB/BKT Exposure) 56
   - ④ Setting SHARPNESS 57
   - ⑤ Adjusting CHROMA 57

Movie Recording

1. Recording Movies 59
2. Functions for Enhancing Movie Recording 60
   - ① Focusing 60
   - ② LCD Monitor Display 60
   - ③ Exposure Compensation 60
   - ④ Setting White Balance 61
   - ⑤ Self-timer and Remote Control Recording 61
   - ⑥ Setting Focus Area 62
   - ⑦ With Sound/No Sound 62
   - ⑧ Changing COLOR 63
   - ⑨ Resizing 63

Playing and Erasing

Playing and Erasing Still Images

1. Displaying Images on the LCD Monitor 66
2. Close-up Image Playback (2x, 4x) 67
3. Displaying Exposure Information (Information Display) 68
4. Displaying Histogram (Brightness Distribution Graph) 68
5. Multiple Image Playback (Index Display) 69
6. [RECORDING] Adding Voice Memos to an Image 70
7. [PROTECT] Preventing Accidental Erasure 72
8. Erasing Images 73
9. [RESIZE] Resizing and Trimming 74
10. [ROTATE] Rotating Images 76
11. [AUTO PLAY] Playing Back Images Sequentially 77
12. [PRINT] Using DPOF to Prepare for Printing 78

Playing and Erasing Movies

1. Playing Movies 82
2. Protecting Movies 83
3. Erasing Movies 84

How to Use the Camera Setup Functions

1. Setup Function Lists 86
2. How to Change Setup Settings 87
3. Setup Menu Contents 88
   <SET UP C.> 88
   <SET UP D.> 89
4. "FORMAT" - Initializing the memory card 92
5. Setting a Start Screen 93

Connecting to Other Devices

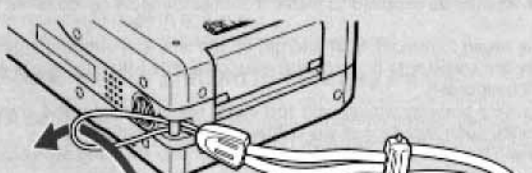
1. Viewing Images on a TV 95
2. Connecting to a PC 96
   <1. Computer Operating Environment> 96
   <2. Connecting the USB Cable to the PC> 98
   <3. Viewing Images on a PC> 99
   <4. Removing Devices> 101
   <5. When the Driver is no Longer Needed> 101
   <6. Installing PIXELA ImageMixer Ver.1.0> 101

Other Information

1. Troubleshooting 103
2. Modes and Function Settings 105
3. Main Specifications 106

Index 108

Attaching the Strap



Caution and Warning Symbols

This instruction manual features the following caution and warning symbols to indicate items of special importance. Be sure to read through the contents of these warnings, and use the features correctly.

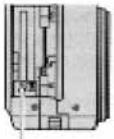
⚠ **DANGER**	This symbol indicates an immediately hazardous situation which if not avoided, will result in death or serious injury.
⚠ **WARNING**	This symbol indicates a potentially hazardous situation which if not avoided, could result in death or serious injury.
⚠ **CAUTION**	This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor injury or equipment damage.

Handling Precautions

<Camera Handling Precautions>

⚠ **WARNING**	• If the camera or battery pack becomes hot, emits smoke or a strange smell, or display other abnormal symptoms, remove them from the camera immediately to prevent fire. When handling the battery pack, take precautions to avoid being burned. • Never attempt to disassemble or modify the camera, since you may receive a severe electric shock. • Do not operate the electronic flash in close proximity to a person's eyes (especially those of an infant), since eye damage may result. • Do not look at the sun or other strong light source through the camera, since your eyesight may be damaged. • Do not attempt to take pictures while driving or walking, particularly when looking through the viewfinder or at the LCD monitor, since you may cause an accident. • When taking pictures, remain aware of your surroundings and what is happening around you.
⚠ **CAUTION**	• Clean the camera well after using it on the beach or other locations where it may be exposed to sand or dust. Salt air may lead to corrosion of metal components and damage or short circuit electronic parts, causing the camera to emit smoke or catch fire. Sand inside the camera may result in internal damage and operating malfunctions. • Sudden changes in temperature that occur when the camera is brought from a cold place to a warm room may cause the lens to fog up. This condition will clear after a while, but repeated exposure may cause condensation to form on the lens and internal parts. Such condensation may damage or short circuit electronic parts, causing the camera to emit smoke or catch fire. Whenever possible, avoid subjecting the camera to sudden changes in temperature. • This camera is a precision electronic instrument, and should be protected from impacts and shocks that might damage or short-circuit internal components. • **When taking the camera overseas or using it to record important events, check its operating condition and take test pictures beforehand to confirm proper operation.**

- This camera is not designed to be waterproof, and cannot be used in the rain or under water. If the camera should inadvertently be exposed to water, it should immediately be taken to a Contax Service Center for inspection.
- Use a blower brush to remove dust and dirt on the lens and viewfinder glass, or wipe gently with a soft lens brush. If they are soiled with fingerprints, wipe off lightly with lens tissue. Wipe off dust and dirt on the mirror lightly with a lens brush.
- Clean the camera body by wiping with soft cloth. Never use benzene, thinner, or other volatile solvents or cleansers, since such substances will damage the body materials.
- The camera will become warm when used for extended shooting sessions. This is normal and not a cause for concern.
- Do not remove the memory card while the card access LED is flashing.
- Interference may occur in recorded or played back images when the camera is used in areas subject to strong electromagnetic interference (e.g., near a television set or stereo speakers).
- Do not aim the camera lens directly at the sun when shooting, since the CCD element may be damaged.
- Dropping the camera may cause damage to internal parts even though the camera may appear to be undamaged. Always take the camera to a Contax Service Center for inspection if it has been dropped.
- Do not touch the inside of the memory card slot, since damage or malfunction may result.



Reset button (R)

Microprocessor Protection Circuit:
This camera incorporates a safety circuit to protect its microprocessor against strong external static electricity. In rare instances, the camera may fail to function because this safety circuit has been triggered.
Should this happen, set the main switch to OFF, remove the battery pack, reload it and press the reset button (R) inside the memory card door. Then turn the camera on again.

- Note that this operation will reset the date and time settings to their factory defaults.

For best performance, we recommend the use of genuine Contax accessories.
Contax is not responsible for any accidents or damage caused by the use of accessories made by other manufacturers or fashioned by the user.

Copyright
Photographs taken of professional performances, exhibitions, displays, or copyrighted materials may be used only for your own personal enjoyment, and only with the consent of the copyright holders.
Other use may constitute violation of applicable copyright laws.
Be aware that some performances, exhibitions, or displays may impose restrictions on photographic or other recording even when the purpose of such recordings is personal enjoyment.

Test Photos and Warranties
Make it a practice to take test shots before taking pictures on important occasions, in order to confirm that images are being recorded properly. Contax will not be held responsible for failure of photographs to be recorded or transmitted to a computer as the result of any defects in recording media (memory card).

<Storing the Camera>

⚠ CAUTION	• Store the camera in a well-ventilated location, avoiding damp or dusty areas, drawers or boxes containing mothballs, or in laboratories or other locations where chemicals are handled. Exposure to such chemical fumes can result in damage to camera circuitry, resulting in short circuits and causing the camera to emit smoke or catch fire.

- Do not place the camera in locations exposed to high temperatures for extended periods of time (the beach in summer, a closed car under bright sun, etc.).
  Such high temperatures may adversely affect or damage the camera, battery pack, or memory cards.
- Remove the battery pack before storing the camera for extended periods of time, to prevent battery leakage and resulting damage.

<Display Panel and LCD Monitor>

⚠ CAUTION	• Strongly rubbing or pressing against the LCD monitor screen can cause damage or other malfunctions. Use a blower brush to remove dirt or dust from the display panel or LCD monitor. In the event of severe soiling, wipe gently with a soft cloth or chamois. • If the LCD monitor breaks, take precautions to prevent personal injury from glass fragments. • If the LCD monitor breaks and its liquid contacts your skin, quickly wipe away any remaining liquid and wash the skin with soap and water. If the liquid should enter the eyes, wash with clean running water for at least 15 minutes, and then seek medical attention immediately.

- Due to the nature of LCD panels, a few pixels may appear permanently lit or may not light at all. This is not a malfunction, and does not affect the recorded image in any way.
- The LCD monitor may appear difficult to see in some outdoor lighting situations.

<Precautions for Handling Rechargeable Lithium Ion Battery Pack>

⚠ DANGER	• Do not charge or the place battery pack near sources of high heat (near flames, heaters, or in direct sunlight, etc.), or in places exposed to flammable gases, since it may generate heat, emit smoke, or rupture. • Do not allow the positive (+) and negative (–) terminals of the battery pack to be short-circuited by metallic wires or objects, since it may generate heat or emit smoke or flames. • Do not store the battery pack together with keys, necklaces, coins or other metallic objects, since the objects may contact the battery pack terminals and short-circuit them. • Do not try to heat the battery pack, or dispose of it in fire, since it may generate heat, emit smoke or flame, or rupture.

⚠ **DANGER**	• Do not attempt to disassemble or modify the battery pack, since it generate heat, emit smoke or flame, or the internal battery liquid may enter your eyes, causing blindness or other personal injury. Should battery liquid enter the eyes, wash them with clear running water and seek medical attention immediately. • Use only the designated battery charger for charging the battery pack. Use of other charger may cause the battery pack to generate heat or smoke, catch fire or explode.

⚠ **WARNING**	• Never place the battery pack in a microwave oven or other container exposed to high-voltage, since battery liquid may leak, or the battery may generate heat, emit smoke or flame, or rupture. • Do not use a leaking battery pack. Battery liquid may contact your skin, causing personal injury. In the event battery liquid does contact skin, wash immediately with clean water. • Do not use broken or ruptured battery pack, since it may generate heat, emit smoke or flame, or cause electrical shock.

⚠ **CAUTION**	• Do not place the battery pack in water of any kind, or allow it to become wet, since it may generate heat, emit smoke or flame, or cause electrical shock. • Do not use or attempt to recharge a wet battery pack, since it may generate heat, emit smoke or flame, or cause electrical shock. • Do not store the battery pack in locations accessible to small children, since injury could result. • Do not throw the battery pack or subject them to strong shocks, since it may be damaged and leak battery fluid. • Whenever possible, use the battery pack at room temperature (20°C ± 5°C). The battery capacity and usable time between charging may be reduced in situations of extreme heat or cold, such as during mid-summer or deep winter weather, or when the battery pack is left in a hot location (e.g., inside a closed car exposed to sun). Such conditions may also shorten the usable service life of the battery pack. • When not using the battery pack, store it in a cool, dry location.

Li-ion **Lithium-Ion Battery Pack.**
Please recycle after use.

<Battery Charger and AC Adapter Handling Precautions>

⚠ **WARNING**	• Make sure that charger and AC adapter plugs are connected securely before use. Loose plugs and poor contacts can cause generation of heat, fire, and electrical shock. • Do not attempt to modify the AC adapter cords, or subject them to unreasonable force. Damaged cords can cause fire and electrical shock. Discard cords whose wire cores are exposed and consult your dealer or Contax Service Center. • Do not attempt to remove covers, disassemble, repair or modify your charger or AC adapter, since dangerous electrical shock could result. • Charger or AC adapter plugs that have become laden with dirt or household dust should not be used, especially not in the vicinity of metal objects, since electricity might be transmitted through the metal, causing fire or electrical shock. If the plug is heavily soiled, disconnect it and clean it before reuse. • In the event that a charger or AC adapter plug emits smoke, unusual smell or sound, or if it is damaged by impact or by being dropped, cease use immediately. Continued use of a damaged plug could result in fire danger. If a plug is damaged, consult your dealer or Contax Service Center. • Do not connect the AC adapter to any sources of power other than a household AC outlet (AC 100-240V, 50/60Hz). Using the adapter with other voltages or ratings may cause a fire hazard or electrical shock.

⚠ **CAUTION**	• Use only the designated AC adapter and charger. Using other adapters or chargers may result in accidents and fire danger. • Never attempt to splice the AC adapter cord, or subject it to severe twisting, bending, or stretching. • Do not handle the charger or AC adapter with wet hands, since electrical shock could result. • Always grasp the plug (not the cord) when removing the AC adapter plugs from camera and power outlet. Pulling the cord could cause breakage or wire damage, resulting in danger of fire or electrical shock. • If you notice any damage to the charger or AC adapter, including broken wires and faulty plug contacts, discontinue use and consult your dealer or Contax Service Center.

- Prolonged use may cause the AC adapter to feel warm; this is only normal and not a malfunction.
- When not using the AC adapter for an extended period of time, first remove the plug from the camera, then disconnect the adapter from its AC outlet.

- If you wish to use the AC adapter while the battery pack is loaded in the camera, first set the camera's power switch to OFF, then connect the AC adapter before turning on the camera again.
- The AC adapter has been designed for exclusive use with this camera. To prevent the danger of fire and electrical shock, do not use the adapter with products other than the specific digital camera for which it was designed.

- The SD logo is a trademark.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries.
- Macintosh, Mac OS, QuickTime™ and the QuickTime logo are the registered trademarks of Apple Computer Inc.
- The PRINT Image Matching and PRINT Image Matching II technology are owned by Seiko Epson Corporation.
- All other corporate and brand names are the registered trademarks or trademarks of their respective owners.

PRINT Image Matching

- This product supports PRINT Image Matching II. Printing images on a printer that supports PRINT Image Matching II or image processing using supported software will most faithfully reproduce the colors of the original scene and the photographer's intent.

FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

DIGITAL STILL CAMERA CONTAX Tvs DIGITAL

FC Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Change the direction of the radio or TV antenna. Move the equipment or the radio or TV. For example, if the equipment is to the right of the TV, move it to the left of the TV. Or, move the equipment farther away from the radio or TV.
- Plug the equipment into a different outlet. Do not plug your radio or TV into the same circuit as your equipment.
- Ensure that all expansion slots (on the back or side of the equipment) are covered. Also, ensure that all metal retaining brackets are tightly attached to the equipment.
- If these suggestions do not help, consult your equipment dealer or experienced radio/TV technician for help.

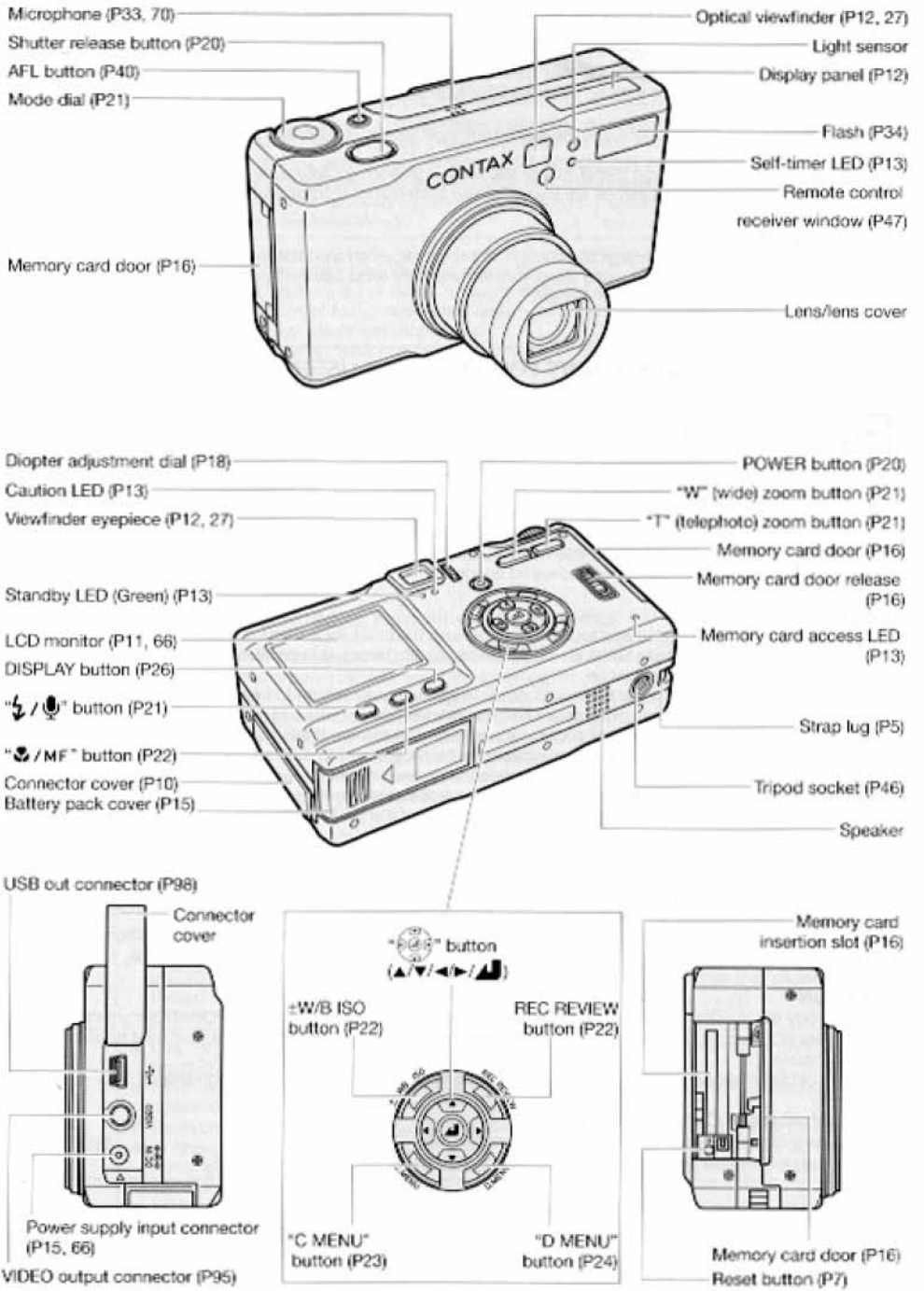
CAUTION

If you modify the camera in any way, without getting approval from KYOCERA CORPORATION, your camera may violate FCC regulations. Violation of FCC regulations may cause the FCC to void your right to use the modified camera.
Shielded cables must be used for this equipment to comply with the relevant FCC regulation.

For customers in Canada CAUTION

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

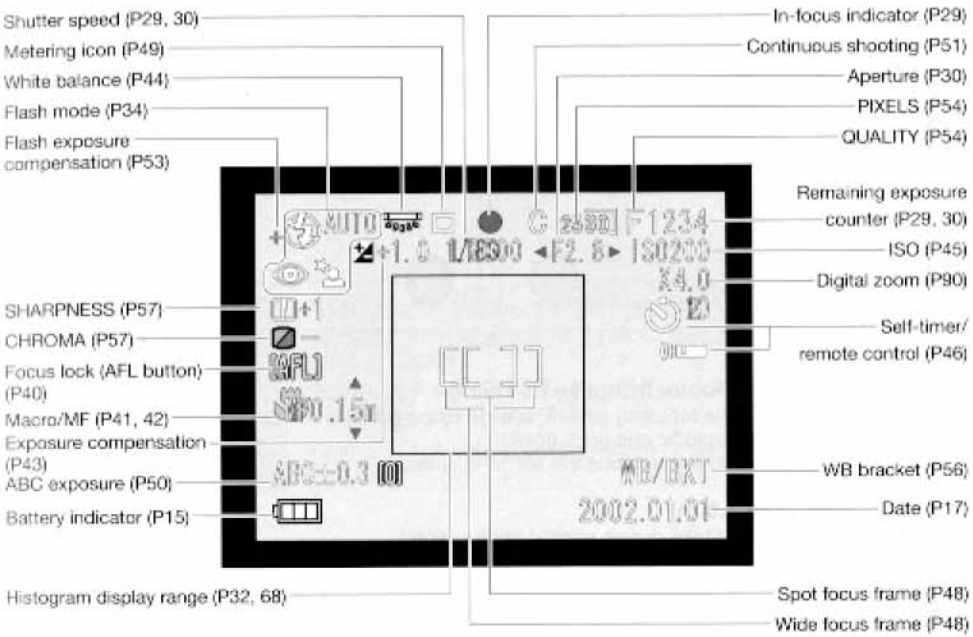
Names of Parts



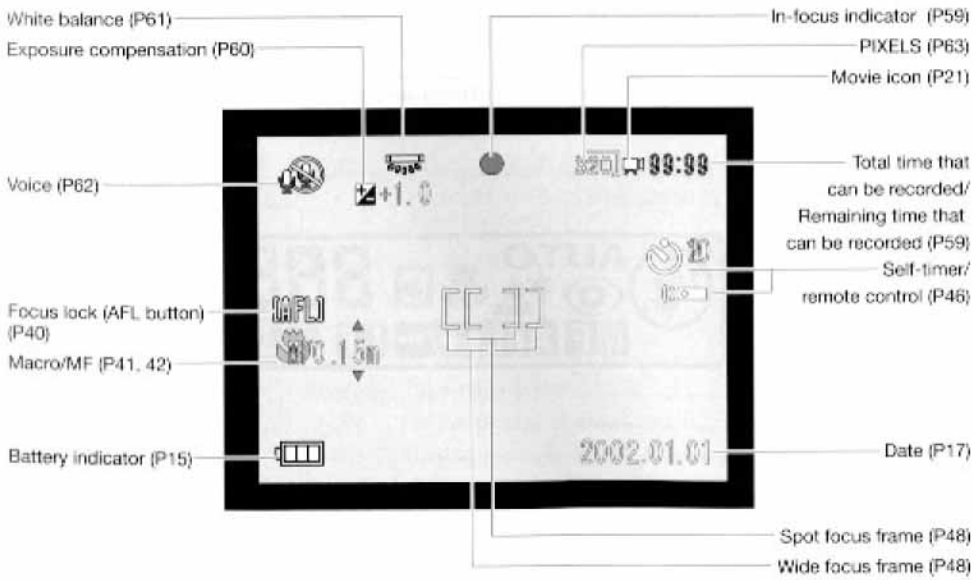
LCD Monitor Indications (Photography Mode)

Still photography mode

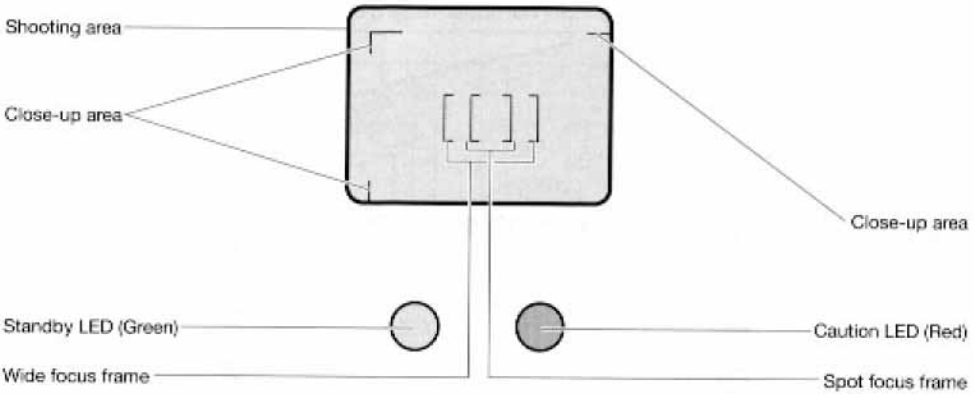
In this diagram all icons are shown on the LCD monitor. In actual use, the icons that appear depend on made settings.



Movie mode



Viewfinder Display



Wide focus and spot focus frame (∞ to 1.5 m)

These indications show the focusing area. The wide focus frame is the default setting. Use the spot focus frame to focus on specific subjects. (P48)

- Use the LCD monitor to focus on subjects that are 1.5 m or closer.

Shooting area (∞ to 1.5 m)

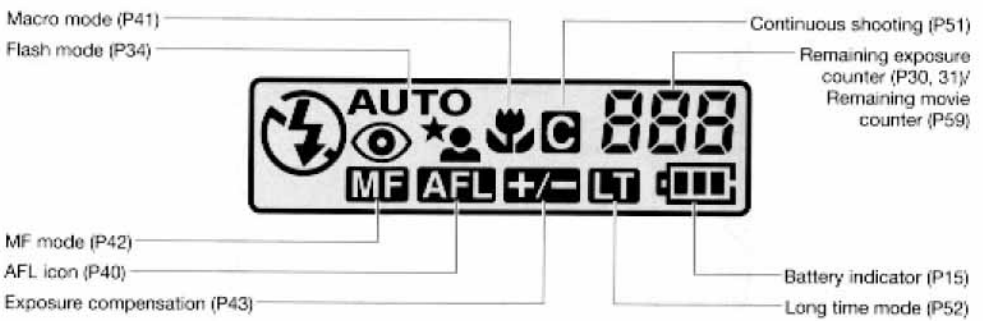
This area shows what you take during normal photography.

Close-up area (1.5 to 0.6 m)

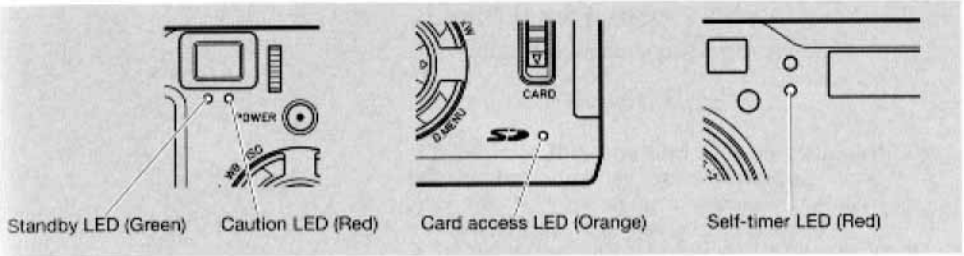
This area shows the area of the subject that you capture during close-up photography. Use the LCD monitor for macro photography.

Display Panel

In this diagram all icons are shown on the display panel. In actual use, the icons that appear depend on made settings.



LED Indicators



Standby LED (Green)

"Movie, Av, P" modes	On	The subject is in focus and a photograph can be taken.
	Flashing	The subject is not in focus, but a photograph can be taken.
	Flashes twice	When the remote control sensor receives the remote control signal (P47).
During battery pack charging	On	The battery pack has been charged.

Caution LED (Red)

"Movie, Av, P" modes	Fast flashing	Sets a slow shutter speed. Take care to avoid camera shake.
	Slow flashing	The flash is charging. Wait until flashing stops before taking the picture.
During battery pack charging	On	Battery pack charging
	Flashing	The battery pack, AC adapter or camera is malfunctioning.

Card access LED (Orange)

"Movie, Av, P, Play, SETUP" modes	Flashing	Indicates that the memory card is being accessed. For example, data is being saved to or read from the memory card.

- The memory card door must not be opened and the memory card must not be removed when the LED is flashing.

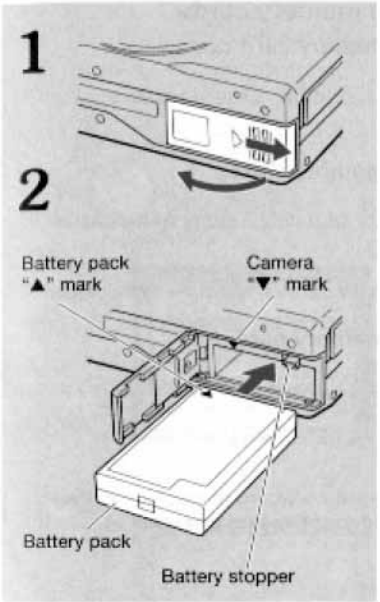
Self-timer LED (Red)

"Movie, Av, P" modes	Flashing	Self-timer is on
	ON	In still picture or movie mode
"Play, SETUP" modes	ON	In play mode or SETUP mode
"PC"	Flashing	When connected to a PC

Preparations and Operating Checks

Preparations Before Shooting

1. Loading and Charging the Battery Pack



<Loading the battery pack>

1 Open the battery pack cover.

Slide it open as shown in the figure.

2 Slide in the supplied battery pack until the battery stopper locks in place.

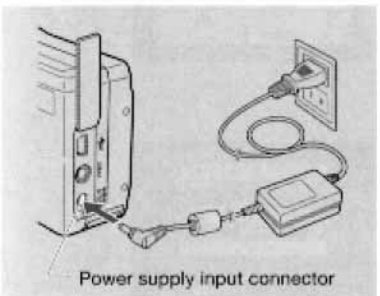
Align the "▼" mark on the camera with the "▲" mark on the battery pack to ensure correct loading.

- The battery pack cannot be charged if it is loaded upside-down.

3 Close the battery pack cover.

<Removing the battery pack>

Release the battery stopper lock to remove the battery pack.

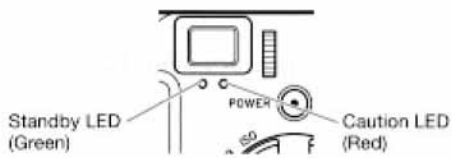


<Charging the battery pack>

Load the battery pack in the camera, connect the supplied AC adapter to the power supply input connector on the camera.

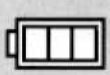
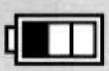
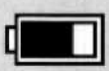
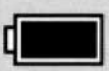
- Make sure that the camera is turned off before charging.

It takes about 6 hours to charge the battery pack. The Caution LED (Red) is lit during charging. When the battery pack is fully charged, the Caution LED goes out and the Standby LED (Green) lights.



<Charging status>

Use the battery indicator on the LCD monitor to check whether or not the battery pack needs to be charged.

			
Sufficient battery power	Half of the battery power has been used.	Battery power is low. Time to charge.	No remaining charge and camera does not operate. Charge the battery pack.